

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. – 16. (Cancelled).

17. (New) A cast aluminium alloy, wherein the alloy comprises

1.0 - 8.0 % by weight magnesium (Mg),

> 1.0 - 4.0 % by weight silicon (Si),

0.01 - < 0.5 % by weight scandium (Sc),

0.005 - 0.2 % by weight titanium (Ti),

0.001 - < 0.1 % by weight zinc (Zn)

0 - 0.5 % by weight of an element or an element group selected from the group consisting of zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V),

0 - 0.8 % by weight manganese (Mn),

0 - 0.3 % by weight chromium (Cr),

0 - 1.0 % by weight copper (Cu),

0 - 0.6 % by weight iron (Fe),

0 - 0.004 % by weight beryllium (Be),

the remainder being aluminum,

provided that the total amount of impurities is not more than 0.5 % by weight and provided that no single impurity is present in an amount of more than 0.1 % by weight.

18. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 2.0 - 7.0 % by weight magnesium (Mg).

19. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 3 - 6 % by weight magnesium (Mg).

20. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 1.1 - 4.0 % by weight silicon (Si).

21. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 1.1 - 3.0 % by weight silicon (Si).

22. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.01 - 0.45 % by weight scandium (Sc).

23. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.015 - 0.4 % by weight scandium (Sc).

24. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.01 - 0.2 % by weight titanium (Ti).

25. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.05 - 0.15 % by weight titanium (Ti).

26. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.01 - 0.3 % by weight zirconium (Zr).

27. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.05 - 0.1 % by weight zirconium (Zr).

28. (New) The cast aluminium alloy of claim 17, wherein the alloy contains at least 0.001 % by weight vanadium (V).

29. (New) The cast aluminium alloy of claim 17, wherein the alloy contains at least 0.008 % by weight vanadium (V).

30. (New) The cast aluminium alloy of claim 17, wherein the alloy contains at least 0.001 % by weight gadolinium (Gd).

31. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.001 - 0.3 % by weight chromium (Cr).

32. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.0015 - 0.2 % by weight chromium (Cr).

33. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.001 - 1.0 % by weight copper (Cu).

34. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.5 - 1.0 % by weight copper (Cu).

35. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.001 - 0.05 % by weight zinc (Zn).

36. (New) The cast aluminium alloy according to claim 17, wherein the alloy contains 0.05 - 0.6 % by weight iron (Fe).

37. (New) The cast aluminium alloy according to claim 17, wherein the alloy contains 0.05 - 0.2 % by weight iron (Fe).

38. (New) The cast aluminium alloy of claim 17, wherein the alloy contains maximally 0.15 % by weight manganese (Mn).

39. (New) The cast aluminium alloy of claim 17, wherein the alloy contains 0.4 - 0.8 % by weight manganese (Mn).

40. (New) A method of producing a cast part said method comprising:  
casting a part comprising the alloy of claim 17 and  
heat treating the part at a temperature of from 250 - 400°C to produce a  
thermally stressed cast part.

41. (New) The method of claim 40, wherein said casting step involves diecasting, sand casting, permanent mold casting, thixocasting, rheocasting or similar casting techniques.

42. (New) The method of claim 40, wherein said part is selected from the group consisting of cylinder heads, crankcases, heat-resistant safety components, air conditioner components and structural airplane components.

43. (New) The method of claim 40, wherein said part is selected from the group consisting of supersonic aircraft components, engine segments and pylons.